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**(54) REACTION AIR
SUPPLY UNIT OF FUEL
CELL POWER
GENERATING SYSTEM**

(57) Abstract:

PURPOSE: To remove adverse effect on cell performance by simply, efficiently removing a trace impurity gas constituent such as an organic solvent contained in reaction air.

CONSTITUTION: A reaction air supply unit 10 includes a filter 6, a blower 7, and an impurity adsorbing device 11 as an impurity removing means, and an impurity gas constituent such as an organic solvent contained in pretreatment-finished air 6A from which dust was already removed is adsorbed with an adsorbent in the impurity adsorbing device to purify reaction air 13A. Degradation of an electrolyte and decrease oxygen adsorption capability of an electrode catalyst caused by supplying the reaction air containing the impurity gas constituent to an air electrode of a fuel cell stack 1, and in addition, drop in fuel cell performance resulting from these troubles are prevented.

